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RURAL ELECTRIFICATION PROGRESSES; ARMENIAN POWER NETWORK FACES DIFFICULTIES

17,000 POWER PLANTS ON USSR KOLKHOZES -- Komsomol'skaya Pravda, No 64, 18 Mar 49

There are 17,000 power plants on USSR kolkhozes. The uniform electrification of villages will be completed in 4 - 5 years. In 1949, 500 MTSs and 11,460 kolkhozes must be provided with electricity, and 5,600 hydroelectric power plants constructed.

KAZAKHSTAN INCREASES POWER STATIONS -- Bol'shevik Altaya, No 56, 30 Mar 49

The construction of 15 power plants will be completed during 1949 in Aktyubinsk Oblast, Kazakh SSR. These will furnish current for 22 agricultural artels. Substations will be built in three kolkhozes of Stepnoy and Novo-Rossiyskiy rayons. An interkolkhoz hydroelectric power plant, to be constructed on the Karakhobda River, will furnish electric power to "Kollektivist," "Novaya Zhizn'," and "Tykkain" artels, Klyuchevoy Rayon.

KIRGIZIA SPEEDS RURAL ELECTRIFICATION -- Sovetskaya Kirgiziya, No 95, 17 May 49

The mountain rivers of Osh Oblast, the Kirgiz-Ata, Ak-Tura, Arevan-Say, Kurshab, Abshir-Say, and Kara-Dar'ya possess tremendous potential power, but as yet their capacity has been insufficiently exploited. Seven new hydroelectric power plants were constructed and put into operation at the beginning of 1949. At present, rural hydroelectric power plants are being built. Nine interkolkhoz and kolkhoz electric power plants and one plant to supply power to the cotton and alfalfa station are being constructed.

"Kirsel'elektro" (Kirgiz Rural Electrification) is a research group which studies power bases with reference to future construction. Eight new projects are planned for Tuleykenskiy, Karasuy, Kurshabskiy, Frunzenskiy, Oshskiy, and Gul'chinskiy rayons.

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Nearly 200 motors are in operation in the oblast agriculture. Twenty-five additional motors will be installed in kolkhozes and 45 in MTSs.

ARMENIAN NETWORK FACES WATER SUPPLY PROBLEMS -- Kommunist, No 111, 13 May 49

The Armenian power network has certain peculiarities. In the first place, only hydroelectric power plants operate in its general network. The flow of water in Armenian rivers increases sharply from the middle of April to the beginning of May and is maintained at a high level for 2 - 2½ months. The flow of water during 8 - 9 months is low, differing little from the minimum flow of water during the winter months.

The network's basic regulating plant, the Kanaker GES, utilizes the waters of Lake Sevan as well as the Zanga River. This GES can drain from the lake the water needed at present. However, the utilization of this water cannot be continued indefinitely and in quanities which can flow through the sluices. The plant must cut down on waste of water, decrease discharge coefficients to enterprises, and lower the consumption of water per kilowatt-hour of electricity generated.

A second peculiarity of the Armenian power network is its use of the same sources of water for both power and irrigation purposes. In periods of intensive irrigation, the power output of the GESs is lowered, amounting to 10 percent of the total capacity of the network. Waste of water in irrigation must therefore be reduced to a minimum.

Third is the problem of daily regulation of power generation. The load on the system during a 24-hour period is uneven. There is a maximum load in the evening hours and a minimum load during the night. This situation is aggravated during the winter months. To alleviate this, water is stored in a daily regulating basin during small load hours to provide the potential for power generation in the peak period.

To meet these problems, rivers must be completely utilized by Armenian GESs during the 2½-month "power season." In this way, Sevan waters can be conserved and irrigation needs in later months can be met more easily. Enterprises can be given additional help during this season in fulfilling their yearly plans, and the load on GESs during the winter months will be lowered.

NEW BOILERS INSTALLED IN ARMENIA -- Kommunist, No 107, 8 May 49

Assembly brigades of the Ministry of Communal Economy, Armenian SSR, are installing fire tube boilers, distinguished by high capacity and simple servicing, in public service enterprises in rayons of the Republic. These new boilers make possible an extensive exploitation of local fuel.

The assembly of the new boilers is being carried out in Aginskiy, Zangibarskiy, Akhtinskiy, Shamshadinskiy, and Sisianskiy rayons and the Rayon imeni Beriya.

ARMENIA SAVES POWER -- Kommunist, No 121, 25 May 49

Enterprises of the Armenian SSR saved 18 million kilowatt-hours of electric power during 1948.

CHITA POWER PLANT WINS TOP HONOR -- Zabaykal'skiy Rabochiy, No 84, 30 Apr 49

R. Bryuzer, chief of the Chita Electric Power Plant of the Transbaykal Railroad System, reports that the plant was awarded the title of best power plant on the railroad networks of the USSR for its outstanding work in March. The plant fulfilled the 4-month plan for production of electric power 106 percent and realized 225,000 rubles returns in the first quarter.

STEAM-ELECTRIC POWER PLANT COMPLETES PLAN -- Bol'shevik Altaya, No 54, 27 Mar 49

Workers of Glubokoye Steam-Electric Power Plant and "Altayenergo" Power System fulfilled the quarter plan for generating electric power on 17 March.

HEAT AND POWER PLANT CONSTRUCTION BEGUN -- Vechernyaya Moskva, No 119, 20 May 49

Construction has begun on a heat and power plant for the coke-gas plant being built in Moscow. The heat and power plant will be erected in the eastern section of the building area and will furnish the heat and power for all production. Work will be on a two-shift basis.

A high-voltage electric power station and a temporary substation have been completed and put into operation.

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